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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A vascular occlusion coil deployment system for use in placing a coil at a preselected site within a vessel comprising:

an elongated flexible positioning member having a lumen extending therethrough and having proximal and distal ends;

an embolic coil;

an elongated flexible delivery member being slidably positioned within the lumen of the positioning member and having proximal and distal ends;

a heating element mounted on the distal end of the delivery member; said heating element being an electrically heated coil;

a non-optical energy transmission conductor extending through the lumen of the positioning member and extending from the proximal end to the distal end of the delivery member, said energy transmission conductor being coupled to said heating element; and

a unitary non-metallic heat responsive coupling member coupled directly to the heating element coil and coupled directly to the embolic coil by a hot melt adhesive bond, said heat responsive coupling member being a biocompatible hot melt adhesive that exhibits the characteristic of, upon being heated,

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releasing the embolic coil from the heating element coil at the preselected site, and wherein the yield strength of the hot melt adhesive is reduced when heated by the heating element.

2. (original cancelled) — A vascular occlusion coil deployment system as defined in claim 1, wherein said heating element is an electrically heated coil.

3. (currently amended cancelled) A vascular occlusion coil deployment system as defined in claim 2, wherein the yield strength of said hot melt adhesive heat responsive coupling member is reduced when heated.

4. (cancelled)

5. (currently amended previously presented) A vascular occlusion coil deployment system as defined in claim 1, wherein the yield strength of said hot melt adhesive of the heat responsive coupling member is reduced at least 50 percent when heated to about 65 degrees Celsius.

6. (currently amended previously presented) A vascular occlusion coil deployment system as defined in claim 1, wherein said hot melt adhesive of the heat responsive coupling member is bonded to the embolic coil and wherein the yield strength is reduced at least 50 percent when heated to about 65 degrees Celsius.

7. (cancelled)

8. (cancelled)